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APPLICATION NO	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/627,420 07/25/2003		07/25/2003	Joel D. Stolfus	P03,0220 (H0005402) 2351		
128	7590	08/14/2006		EXAMINER		
		ERNATIONAL IN	SCHINDLER, DAVID M			
101 COLU P O BOX 2		AD	ART UNIT	PAPER NUMBER		
MORRIST	OWN, NJ	07962-2245	2862			

DATE MAILED: 08/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)
10/627,420	STOLFUS ET AL.
Examiner	Art Unit
David Schindler	2862

		2002	
The MAILING DATE of this communication appe	ars on the cover sheet with the	correspondence add	ress
THE REPLY FILED 10 July 2006 FAILS TO PLACE THIS APPI	LICATION IN CONDITION FOR AL	LOWANCE.	
1. The reply was filed after a final rejection, but prior to or on this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a No a Request for Continued Examination (RCE) in compliant time periods:	wing replies: (1) an amendment, at tice of Appeal (with appeal fee) in	ffidavit, or other eviden compliance with 37 Cl	rce, which FR 41.31; or (3)
a) The period for reply expiresmonths from the mailing	g date of the final rejection.		
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire the Examiner Note: If box 1 is checked, check either box (a) or the statutory period for reply expire the statutory period for reply expire the statutory period for reply expires the statutory period for reply expires the statutory period for reply expires on: (1) the mailing date of this A no event.	ater than SIX MONTHS from the mailir	ng date of the final rejection	on.
TWO MONTHS OF THE FINAL REJECTION. See MPEP 7		400()	
Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of ex under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL	tension and the corresponding amount shortened statutory period for reply origon r than three months after the mailing do	t of the fee. The appropri ginally set in the final Offi	ate extension fee ce action; or (2) as
2. ☐ The Notice of Appeal was filed on A brief in comp	pliance with 37 CFR 41.37 must be	e filed within two month	s of the date of
filing the Notice of Appeal (37 CFR 41.37(a)), or any exte a Notice of Appeal has been filed, any reply must be filed AMENDMENTS	nsion thereof (37 CFR 41.37(e)), t	o avoid dismissal of th	
3. The proposed amendment(s) filed after a final rejection,	but prior to the date of filing a brie	f, will <u>not</u> be entered b	ecause
(a) They raise new issues that would require further co	nsideration and/or search (see NC	TE below);	
(b) ☐ They raise the issue of new matter (see NOTE belo		•	
(c) They are not deemed to place the application in be	tter form for appeal by materially re	educing or simplifying	the issues for
appeal; and/or (d) ☐ They present additional claims without canceling a	corresponding number of finally re	iected claims	
NOTE: (See 37 CFR 1.116 and 41.33(a)).		gootod olalino.	
4. The amendments are not in compliance with 37 CFR 1.1		ompliant Amendment	(PTOL-324).
5. Applicant's reply has overcome the following rejection(s)			(· · · / ·
6. Newly proposed or amended claim(s) would be a		, timely filed amendme	ent canceling the
non-allowable claim(s).			
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is pro The status of the claim(s) is (or will be) as follows:		rill be entered and an e	explanation of
Claim(s) allowed: Claim(s) objected to:			
Claim(s) rejected: Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE			
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good an was not earlier presented. See 37 CFR 1.116(e). 	at before or on the date of filing a N d sufficient reasons why the affida	Notice of Appeal will <u>no</u> vit or other evidence is	ot be entered s necessary and
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to showing a good and sufficient reasons why it is necessar	overcome all rejections under appe	eal and/or appellant fa	ils to provide a
10. The affidavit or other evidence is entered. An explanation			
REQUEST FOR RECONSIDERATION/OTHER			
11. The request for reconsideration has been considered by See Continuation Sheet.			nce because:
12. Note the attached Information Disclosure Statement(s).	(PTO/SB/08 or PTO-1449) Paper	NO(S)	
13. Other:		/?//	111
		Mel	M. Committee of the Com
		EDWARD LEF	KÓWITZ
		SUPERVISORY PATE	

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Continuation of 11. does NOT place the application in condition for allowance because:

With regard to Applicant's arguments in the last paragraph of page 3 and the first

four paragraphs of page 4, as well as paragraphs 1-3 on page 5 of the Remarks, the Examiner respectfully disagrees.

1. The Examiner notes the last paragraph of page 7 of Behrens, as well as lines 1-5 of page 8 of Behrens, as well as Figures 1 and 3. Specifically, it is noted that Behrens states that the compressor blade moving in a direction of rotation 8 has a velocity component v at a right angle to the magnetic field B. Behrens further states that due to the Lorentz force F=qv X B, an induction current I is induced in the top side of 13, and that this induction current I, for its part, produced a secondary magnetic field, that counteracts the magnetic field B of the rod magnet 9 and induces an induction current Uind in the induction coil 10. With regard to this, the Examiner notes that the coil must be within range of the secondary magnetic field that counteracts the magnetic field B of the magnet in order for the secondary magnetic field to induce an induction current Uind in the coil. Therefore, in the combination of Behrens in view of Nath, in which the coil is replaced with a giant magnetoresistor (gmr), the gmr must also be within range of the secondary magnetic field that counteracts the magnetic field B of the magnet, in which the secondary magnetic field induces a signal in the gmr. By interchanging the coil with a gmr, the gmr would be used to detect the secondary magnetic field. Since the secondary magnetic field "counteracts" the magnetic field B, the secondary magnetic field must be parallel to but in the opposite direction of the magnetic field B. Therefore, if the gmr is positioned to detect the secondary magnetic field B. Thus, the gmr must be biased by the magnet as the gmr must be positioned so that it is sensitive to a magnetic field along an axis that is parallel to both the magnetic field.

With regard to the arguments on page 6 and lines 1-7 of page 7 of the Remarks, the Examiner respectfully disagrees. The Examiner notes that the Nath reference was provided merely to demonstrate that a gmr and a coil are art recognized equivalents with regard to the magnetic field generated by eddy currents (see column 4, lines 12-18 of Nath). It would have been obvious to a person of ordinary skill in the art to interchange the coil with the gmr as they are both art recognized equivalents, and it would have been obvious to interchange the coil with the gmr in order to detect the secondary magnetic fields generated by eddy currents. The Examiner notes MPEP 2144.06 Art Recognized Equivalence for the Same Purpose. Section II entitled SUBSTITUTING EQUIVALENTS KNOWN FOR THE SAME PURPOSE states that in order to rely on equivalence as a rationale supporting an obviousness rejection, the equivalency must be recognized in the prior art, and cannot be based on applicant's disclosure or the mere fact that the components at issue are functional or mechanical equivalents. The Examiner notes that the Nath reference appears to establish that the above equivalency is recognized in the prior art by stating that a magnetic field sensor detects the secondary magnetic fields generated by eddy currents, and that exemplary magnetic field sensors include a sense coil, a conventional eddy current coil, or a gmr (see column 4, lines 12-18 of Nath).

With regard to lines 1-4 and 6-9 of paragraph 1 of page 8 of the Remarks, the Examiner respectfully disagrees and directs applicant's attention to the above response.

With regard to paragraph 2 of page 8 of the Remarks, the Examiner notes that Cila was not applied to provide motivation to combine Behrens and Nath.

With regard to paragraph 3 of page 8 of the Remarks, the Examiner respectfully disagrees and directs applicant's attention to the above first two paragraphs of this response.

With regard to the second full paragraph of page 10 of the Remarks, the Examiner respectfully disagrees and directs applicant's attention to the above first two paragraphs of this response.

With regard to the last full paragraph of page 10 of the Remarks, the Examiner notes that Takizawa was not applied to provide motivation to combine Behrens and Nath.

With regard to paragraph 1 of page 11 of the Remarks, the Examiner respectfully disagrees and directs applicant's attention to the above first two paragraphs of this response.

With regard to paragraph 1 of page 13 of the Remarks, the Examiner respectfully disagrees and directs applicant's attention to the above first two paragraphs of this response.

With regard to paragraph 2 of page 13 of the Remarks, the Examiner notes that Stolfus was not applied to provide a motivation to combine Behrens and Nath.

With regard to paragraph 1 of page 14 of the Remarks, the Examiner respectfully disagrees and directs applicant's attention the the above first two paragraphs of this response.

With regard to paragraph 2 of page 14 of the Remarks, the Examiner notes that Cila and Stolfus were not applied to provide motivation to combine Behrens and Nath.

With regard to paragraphs 3 and 4 of page 14 of the Remarks, the Examiner the Examiner respectfully disagrees and directs applicant's attention to the above first two paragraphs of this response.

With regard to the second full paragraph of page 15 of the Remarks, the Examiner respectfuly disagrees and directs applicant's attention to the above first two paragraphs of this response.

With regard to the third full paragraph of page 15 of the Remarks, the Examiner notes that Takizawa and Stolfus were not applied to provide motivation to combine Behrens and Nath.

With regard to the fourth full paragraph of page 15 of the Remarks, the Examiner respectfully disagrees directs applicant's attention to the above first two paragraphs of this response.

With regard to the second and third full paragraphs of page 17 of the Remarks, the Examiner respectfully disagrees and directs applicant's attention to the above first two paragraphs of this response.

With regard to paragraph 2 of page 18 of the Remarks, the Examiner respectfully disagrees and directs applicant's attention to both the above first two paragraphs as well as the rejection of claim 14 of the Final Rejection mailed 5/18/2006.

With regard to lines 1-6 of the first full paragraph of page 19, the Examiner respectfully disagrees and directs applicant's attention to to the above first two paragraphs of this response.

With regard to the second full paragraph of page 19 of the Remarks, the the Examiner respectfully disagrees and directs applicant's attention to the above first two paragraphs of this response.

With regard to the last two lines of page 19, as well as lines 1-2 of page 20 of the Remarks, the Examiner respectfully disagrees and directs applicant's attention to both the above first two paragraphs of this response as well as the rejections of claims 14 and 24 of the Final Rejection mailed 5/18/2006.

With regard to the last paragraph of page 20 of the Remarks, the Examiner respectfully disagrees and directs applicant's attention to both the above first two paragraphs as well as the rejection of claim 14 of the Final Rejection mailed 5/18/2006.

With regard to paragraph 2 of page 21 of the Remarks, the Examiner respectfully disagrees and directs applicant's attention to both the above first two paragraphs as well as the rejections of claims 14 and 19-22 of the Final Rejection mailed 5/18/2006.

With regard to the first, second, and third full paragraphs of page 22 of the Remarks, as well as pages 23, 24, and 25, the Examiner respectfully disagrees. The Examiner notes that similarities of the applicant's Figure 9 in comparison to that of Figure 5 of Stolfus. Stolfus appears to disclose, at the least, reducing the pulse rate (see Abstract / note that the output of the vehicle speed sensor circuit can be divided). The Examiner notes that given the similarities between applicant's Figure 9 in comparison to that of Figure 5 of Stolfus, that in the combination, whatever applicant's invention is capable of, the combination of Behrens in view of Nath and Stolfus is capable of performing the same. Also note the similarities of what Behrens in view of Nath teach with regard to applicant's invention (see the above first two paragraphs of this response, as well as the rejections of claims 1 and 14 of the Final Rejection mailed 5/18/2006. Therefore, having taught the combination of Behrens in view of Nath and Stolfus, the invention of Behrens in view of Nath and Stolfus must be able to perform the same function as applicant's invention, including reducing the pulse rate so as to provide a consistent pulse rate regardless of the number of fins of the non-ferromagnetic compressor wheel. Therefore, the Examiner respectfully disagrees with applicant.

With regard to the third full paragraph of page 26 of the Remarks, the Examiner respectfully disagrees and directs applicant's attention to the paragraph immediately above.

With regard to the third paragraph of page 28, the Examiner respectfully disagrees and directs applicant's attention to the response located two paragraphs above.